

L-6203 Dilution Tolerance UV Polyurethane Resin

Description

L-6203 is a 2-functional UV polyurethane resin with good sag resistance, recommended for use in coatings, inks, adhesives, and other photopolymerization applications. As the main film-forming resin in free-radical curing systems, L-6203 offers better overall performance and tensile properties compared with L-6200C. It exhibits excellent adhesion on various plastic substrates and strong interlayer bonding in vacuum-metallized coatings. The resin provides superior hiding power on metal substrates and high fullness on uneven or defective surfaces. The cured coating resists boiling water, shows low yellowing, and is suitable for high-performance coatings and ink systems.

Technical Data

Appearance	Light yellow clear transparent liquid
Viscosity (60°C, CPS)	55,000-85,000
Color Value (Gardner)	≤2
UV Content (%)	100
Acid Value (mg KOH/g)	≤1
Refractive Index	1.479
Shore Hardness	66A
Tensile Strength (MPa)(ASTM D882)	5.1
Elongation at Break (%) (ASTM D882)	61.2
Functional Group	2

Product Features

Used as the main resin in vacuum-metallized primers
Excellent interlayer adhesion, good flexibility and excellent hiding power
Low shrinkage with moderate tensile strength and elasticity

Applications

UV vacuum metallized primers; UV nail polish base gel/color gel; UV inks; UV plastic varnishes,

Storage Conditions

To prevent premature polymerization due to the high reactivity of this product, keep it tightly sealed and store away from heat sources and direct sunlight. It is recommended to maintain storage temperature below 30 °C. Unused product should be promptly resealed and must not be left open. Under ventilated conditions at 25 °C, the product has a safe storage period of 6 months. Available packaging: 20 kg / 200 kg drums.

Tips: L-6203 features high performance, flexibility, good plating, stretchability, and excellent hiding power.